PANEL: T

DATE: 03/28/01 TIME: 16:19:17
JOB: 2K-087D

PANEL VOLTAGE: 240/120 1Φ 3 W
BUS: 100A
MAINS: 50A CB W/SHUNT TRIP
AIC RATING: 22,000 MOUNTING: SURFACE

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION DESCRIPTION	(NOTE)	M	R	L	CONNECTED VA ΦA	ΦB	ΦA	ΦB	L	R	M	(NOTE)	LOAD DESIGNATION DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	20	1	LIGHT/RECEPT.					250		1100						HAND DRYER	20	1		2
3	L	20	1	LIGHTING	1					700		500					SPACE HEATER	20	1		4
5				SPACE					–		–						SPACE				6
7										–		–									8
9									–		–										10
11										–		–									12
13									–		–										14
15										–		–									16
17									–		–										18
19										–		–									20
21									–		–										22
23										–		–									24

PANEL NOTES: PHASE TOTALS ΦA: 1350 ΦB: 1200

TOTAL CONNECTED VA	2550
CONNECTED VA (CODE N)	1600
CONNECTED VA (CODE L)	950
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	2.6
PANEL DEMAND KVA	2.8
PANEL DEMAND AMPS	11.6
HIGH Φ AMPS W/LCL	11.8

(1) PROVIDE PHOTOCELL FOR CONTROL OF CIRCUIT INDICATED. LOCATE PHOTOCELL ON ROOF FACING NORTH SKY.

LOCATION: PLUMBING CHASE

ALL CIRCUIT BREAKERS SHALL BE FULLY RATED.

EXISTING 200A PANEL

DATE: 03/28/01 TIME: 16:19:30
JOB: 2K-087D

PANEL VOLTAGE: 240/120 1Φ 3 W
BUS: 200A
MAINS: L.O.
AIC RATING: 22,000 MOUNTING: SURFACE, NEMA 3R

CIRCUIT CODE: blank or N : NON-CONTINUOUS
L : LONG-CONTINUOUS
R : DEMANDABLE RECEPTACLES
K : KITCHEN NO. OF EQUIPMENT: 0

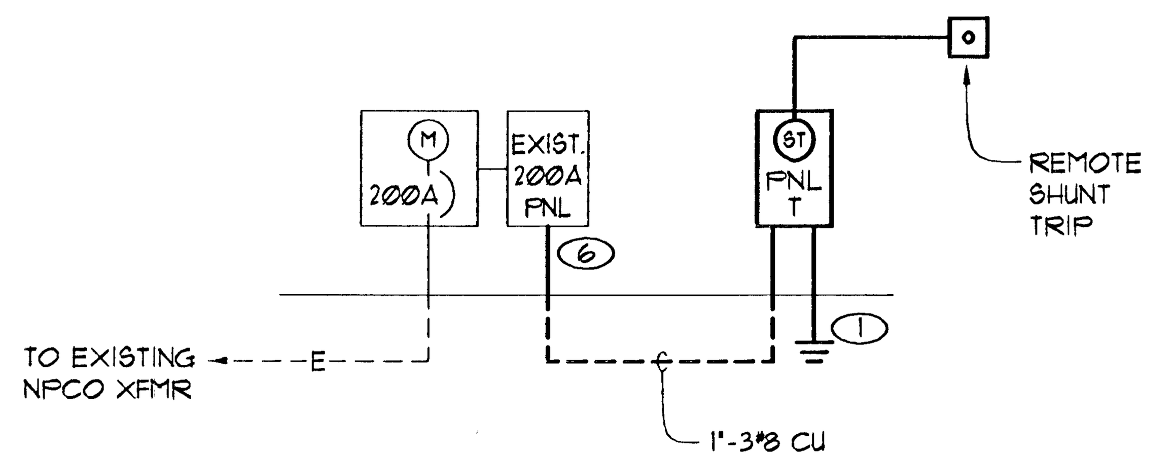
CKT NO	CODE	TRIP	POLE	LOAD DESIGNATION DESCRIPTION	(NOTE)	M	R	L	CONNECTED VA ΦA	ΦB	ΦA	ΦB	L	R	M	(NOTE)	LOAD DESIGNATION DESCRIPTION	TRIP	POLE	CODE	CKT NO
1	L	30		EXIST. LIGHTS					2500		1000						EXIST. MISC. LOAD	20	1		2
3	L		2	---						2500		1000									4
5		20	1	EXIST. CONTROLLER					1000		1000										6
7		20	1	TIMESWITCH	1					1000		180				1	PUMP OUTLET				8
9		40		STREET LIGHTING					1200		3360						PRESSURE PUMP	60			10
11			2	---						1200		3360					---		2		12
13		50		PANEL T					1350		1500						CONCESSION RECEPT.	20	1		14
15			2	---						1200		1500					CONCESSION RECEPT.	20			16
17		20	1	SPARE					–		1500						---		2		18
19		20	1	SPARE						–		–					SPARE	20	1		20
21				SPACE					–		–						SPACE				22
23				SPACE						–		–					SPACE				24

PANEL NOTES: PHASE TOTALS ΦA: 14410 ΦB: 11940

TOTAL CONNECTED VA	26350
CONNECTED VA (CODE N)	21350
CONNECTED VA (CODE L)	5000
CONNECTED VA (CODE R)	0
CONNECTED VA (CODE K)	0
PANEL CONNECTED KVA	26.4
PANEL DEMAND KVA	27.6
PANEL DEMAND AMPS	115.0
HIGH Φ AMPS W/LCL	125.3

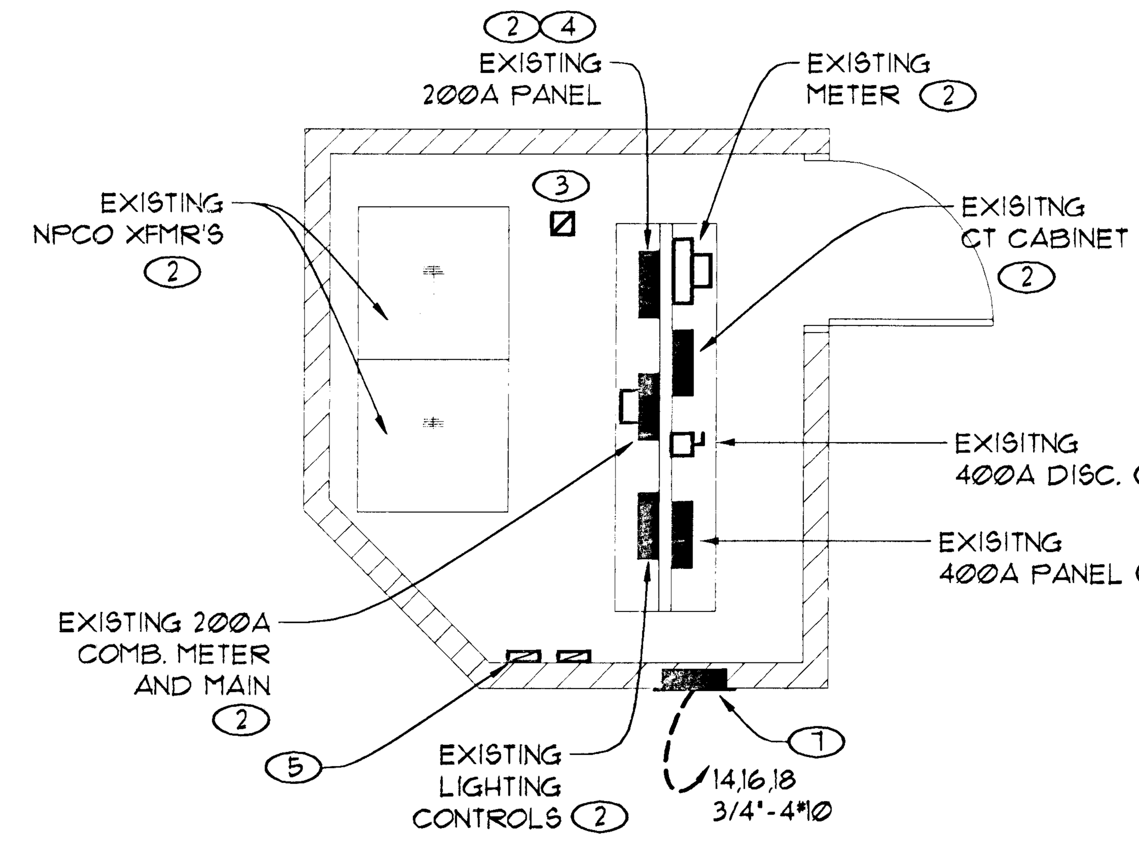
(1) RELOCATED ITEMS FROM EXISTING 100A PANEL IN EXISTING RESTROOM CHASE. PROVIDE NEW CIRCUIT BREAKERS SIZED AS INDICATED TO MATCH EXISTING TYPE AND MANUFACTURER.

LOCATION: EXTERIOR SERVICE YARD



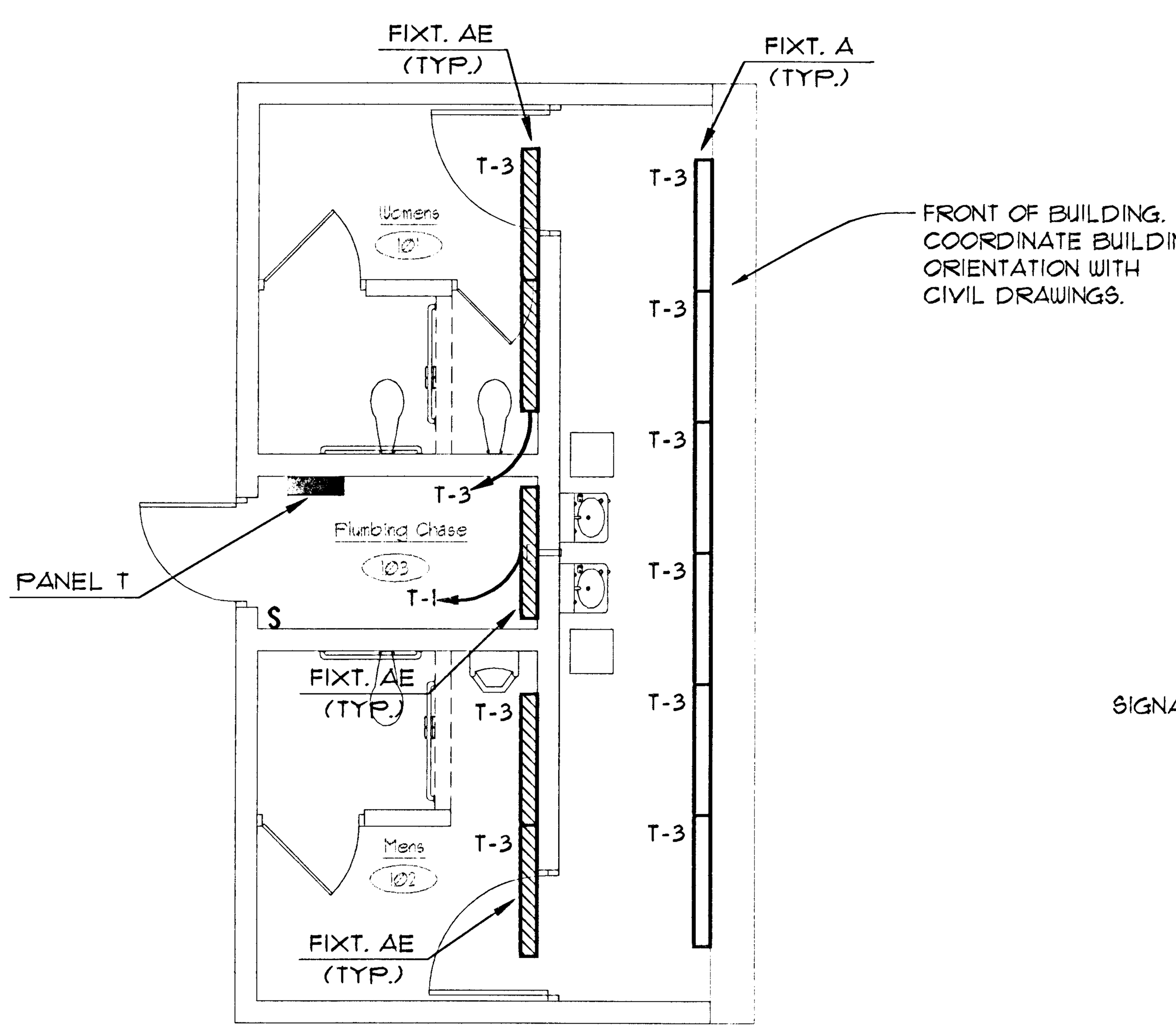
TOILET FACILITY SINGLE LINE DIAGRAM (1 / E2)

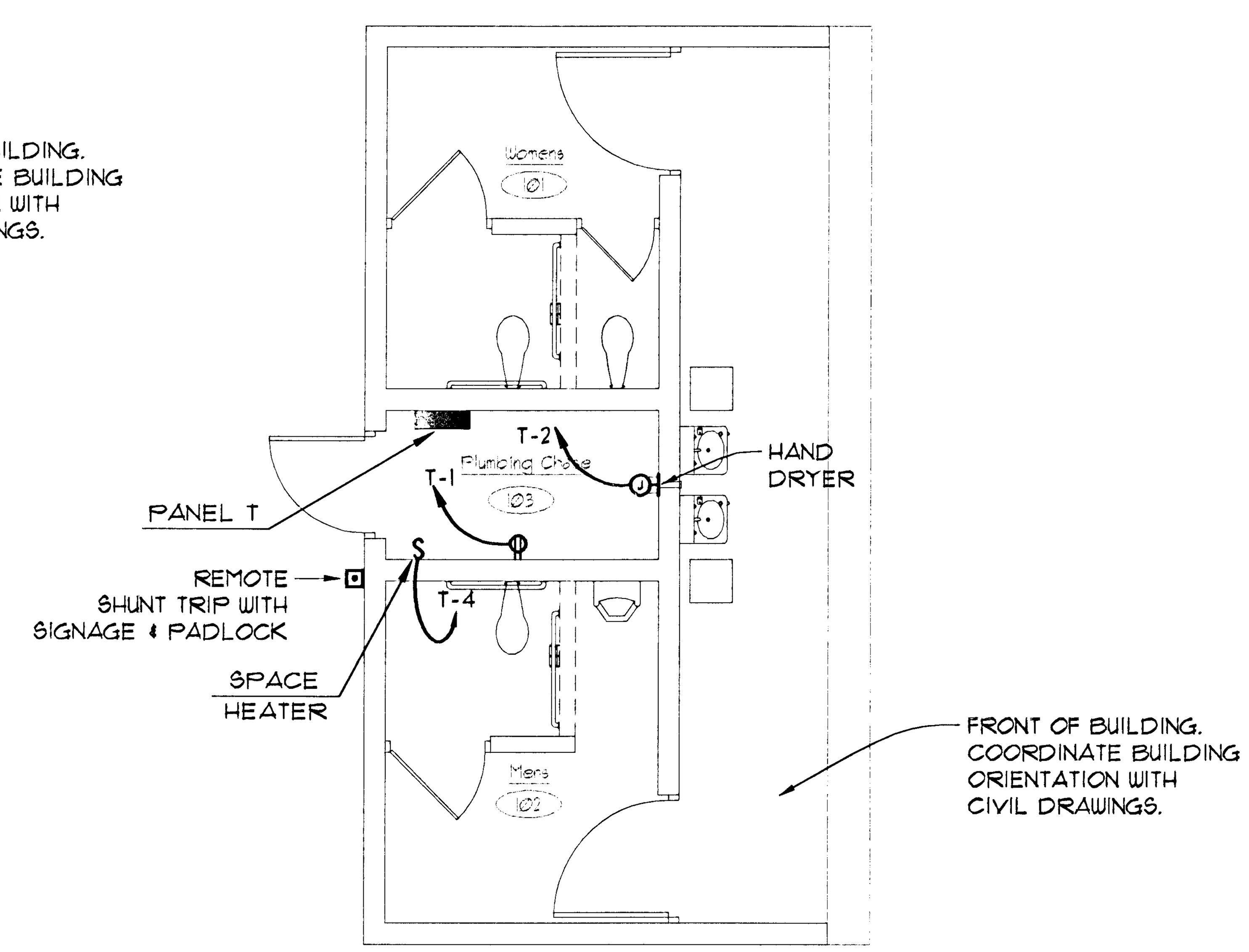
NO SCALE



NEW CMU ENCLOSURE (C / E2)

1/4" = 1'-0" APPROX. 45' SE OF NEW RESTROOM





NORTH

LIGHTING PLAN (A / E2)

1/4" = 1'-0"

NORTH

POWER & AUXILIARY PLAN (B / E2)

1/4" = 1'-0"

NOTES

1. PROVIDE UFER GROUND CONSISTING OF A MINIMUM 30 FT. #3/0 B.C INSTALLED PER N.E.C. 250 OR FOOTER REBAR AS APPROVED BY BUILDING DEPARTMENT.
2. EXISTING ELECTRICAL EQUIPMENT TO REMAIN.
3. INTERCEPT EXISTING PUMP CIRCUITS FROM EXISTING 100A PANEL IN RESTROOM CHASE. PROVIDE PULLBOX AND EXTEND TO EXISTING 200A PANEL. PROVIDE NEW 60A 2P CIRCUIT BREAKER TO MATCH EXISTING TYPE AND MANUFACTURER.
4. INTERCEPT EXISTING CIRCUITS FROM EXISTING 100A PANEL IN RESTROOM CHASE AND EXTEND TO EXISTING 200A PANEL. PROVIDE NEW CIRCUIT BREAKERS TO MATCH EXISTING TYPE AND MANUFACTURER. ABANDON EXISTING CIRCUITS THAT PROVIDE POWER FOR THE EXISTING RESTROOM. ALSO, ABANDON EXISTING 100A METER/MAIN PANEL.
5. RELOCATE EXISTING TIMECLOCK, IRRIGATION CONTROLLERS AND OTHER EQUIPMENT FROM THE EXISTING RESTROOM CHASE AND EXTERIOR WALL TO THE INSIDE WALL OF NEW CMU BLOCK ENCLOSURE. COORDINATE WITH ARCHITECT PRIOR TO RELOCATION. INTERCEPT AND EXTEND ALL RELATED CONDUIT AND WIRE TO NEW LOCATION.
6. PROVIDE NEW 50A 2P CIRCUIT BREAKER IN EXISTING 200A PANEL TO MATCH EXISTING TYPE AND MANUFACTURER FOR PANEL T IN NEW RESTROOM BUILDING.
7. PROVIDE RECESSED LOCKABLE NEMA 3R BOX WITH (1) WP GFI DUPLEX RECEPTACLE AND (1) WP GFI 220V RECEPTACLE. PROVIDE (1) NEW 20A 1P CIRCUIT BREAKER AND (1) NEW 20A 2P CIRCUIT BREAKER IN EXISTING 200A PANEL TO MATCH EXISTING TYPE AND MANUFACTURER, FOR GFI RECEPTACLES ABOVE. LABEL EXTERIOR OF BOX 'CONCESSION STAND POWER'.

NOTICE

1. ALL OUTLETS, FIXTURES AND EQUIPMENT SHALL BE CIRCUITED TO PANEL T UNLESS OTHERWISE NOTED. NUMBERS INDICATE CIRCUITING.
2. ALL WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 1/2" MINIMUM UNLESS OTHERWISE NOTED. MC CABLE (MIN. 3/8") IS ALLOWED, HOWEVER, ALL HOMERUNS SHALL BE IN CONDUIT. ENT IS NOT PERMITTED. PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT, GRS OR IMC AS ALLOWED BY CODE. FLEXIBLE METAL CONDUIT IS ACCEPTABLE WITH PRIOR WRITTEN APPROVAL OF OWNER.
3. WIRE SIZE SHALL BE MINIMUM #12 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 200 FEET.
4. WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
5. MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED. PROVIDE UNSWITCHED WIRE FOR ALL BATTERY UNITS.
6. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
7. EACH FLUORESCENT LIGHTING CIRCUIT DOES NOT REQUIRE A SEPARATE NEUTRAL.
8. VERIFY MOUNTING AND LOCATION OF ALL FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION.
9. EACH DUPLEX RECEPTACLE CIRCUIT DOES NOT REQUIRE SEPARATE NEUTRAL.
10. VERIFY MOUNTING AND LOCATION OF ALL OUTLETS WITH ARCHITECT PRIOR TO INSTALLATION.

FINAL

REGISTERED PROFESSIONAL ENGINEER STATE OF NEVADA ROBERT E. ASH ELECTRICAL No. 4321

CITY OF LAS VEGAS NEVADA

DEPARTMENT OF PUBLIC WORKS

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Dexter Park - Rehab

- Restroom Facility (Prototype One) -

ELECTRICAL PLANS, SINGLE LINE DIAGRAMS & SCHEDULE

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ARCHITECT
PATRICK BATTE, AIA, NCARB

DRAWN	AHP
FILE	2K087E2.DWG
DATE	FEBRUARY 28, 2001
SCALE	1/4" = 1'-0"
PROJECT	DEXTER PARK
SHT NO	26 RR-E2

650.16-11

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#2K-087D